Derek Ni

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https://derekni.com | https://github.com/derekni

EDUCATION

Cornell University   Ithaca, NY
B.S. Computer Science, GPA: 4.13   *Expected May 2022*
Courses: Object Oriented Programming and Data Structures, Discrete Structures, Functional Programming, Intro to Backend Development, Multivariable Calculus, Linear Algebra, Basic Probability and Statistics

PERSONAL PROJECTS

TaskTime | Swift, XCode
- Productivity app to motivate users to complete to-dos and keep healthy habits
- Identified procrastination problem for many students with a need for a way to improve productivity
- Developed an app using points with gamified to-do list to motivate students

Johnny Jumper | JavaScript, Phaser
- A 2D mobile jump game where the player jumps from platform to platform to reach the sky
- Developed with simple tap-and-hold gameplay to be accessible to everyone
- Optimized by creating sub-maps instead of one large map and reducing tile layers

Jimmy Jumper | C#, Unity
- A 3D mobile runner game where the player runs and jumps on platforms in the sky
- Modified physics to improve gameplay and optimized by creating and destroying objects as needed

WORK EXPERIENCE

MITRE Corporation   McLean, VA
Software Engineer Intern   *May 2020 – August 2020*
- Automated testing of synthetic audio ML models using shell scripts, Amazon Transcribe and SCLite
- Improved ML models by creating spreadsheets from data evaluations to cherry-pick training data
- Generated synthetic images using WGANs, LSGANs, and DCGANs training on the CIFAR-10 dataset

Cornell University   Ithaca, NY
CS 2110 Consultant   *August 2020 – Present*
- Hosted weekly office hours to help students with object-oriented programming concepts
- Graded and gave feedback on coding assignments, quizzes and exams

ORGANIZATIONS

Cornell ACSU   Ithaca, NY
Academic Officer   *October 2019 – Present*
- Organized academic events for students interested in computer science
- Led collaboration with Cornell AppDev to increase outreach with an iOS workshop

Southgate GIVE   Reston, VA
Center Manager   *September 2017 – June 2019*
- Managed volunteer tutoring program targeted towards elementary schoolers
- Created roadmaps for students to improve their math and reading by 1-2 grade levels over school year
- Advertised through social media, emails and partnerships with local elementary schools

SKILLS & INTERESTS

Skills: Python, Java, C#, Swift, JavaScript, OCaml, HTML and SQL
Interests: Reading, tennis, piano, podcasts and running